MontCAS, Phase 2



Guide to Interpreting
the 2004
Criterion-Referenced Test and
CRT-Alternate Assessment Reports

IMPORTANT PHONE NUMBERS

If you require assistance, it's readily available through the offices listed below.

• For information about program policy issues or incorrect data, contact:

Judy Snow, State Assessment Director

Phone: (406) 444-3656 Email: jsnow@state.mt.us

• For information about CRT program administration or shipping issues, contact:

Sharon Houle, Montana CRT Program Manager

Phone (800) 431-8901, Extension 2186 Email: shoule@measuredprogress.org

For information on CRT-Alternate policy issues, contact:

Bob Runkel or Marilyn Pearson PI Division of Special Education

Phone: (406) 444-5661

Email: mpearson@state.mt.us brunkel@state.mt.us

• For information about CRT-Alternate program administration or shipping issues, contact:

Susan Moore, Montana CRT-Alternate Program Manager

Phone (800) 431-8901, Extension 2237 Email: skmoore@measuredprogress.org

• For information about ELL/LEP, contact:

Lynn Hinch, OPI

Phone: (406) 444-3482 Email: lhinch@state.mt.us

• For information about Title I, contact:

B.J. Granbery, OPI

Phone: (406) 444-4420

Email: bgranbery@state.mt.us

• For information about students with Migrant status, contact:

Angela Branz-Spall, OPI Phone: (406) 444-2423

Email: angelab@state.mt.us





The primary purpose of this guide is to support local educators' use of test data to better serve the academic needs of students and to evaluate and improve curriculum and instruction. We hope you find this guide useful as you review the results for your school or system.

If you have any suggestions about ways in which we can improve this guide in future years or if you have questions after reviewing this guide or its reports, please contact Judy Snow, State Assessment Director, Office of Public Instruction (OPI) at (406) 444-3646 or jsnow@state.mt.us.

Additional information about the Criterion-Referenced Test (CRT) and the CRT-Alternate Assessment, including Montana content standards, can be found on the OPI website: http://www.opi.state.mt.us.

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THE TEST

The Criterion-Referenced Test (CRT) and the CRT-Alternate Assessment are designed to measure student acquisition of the knowledge and skills in Montana content standards for reading and mathematics. The assessments in reading and mathematics were developed to provide information at the student, class, school, and system level.

Basis for Results

CRT

In the CRT, the pool of test items in each grade and subject area was divided into two categories:

- 1. The first category of items is common items that appeared in all forms of the test and were completed by all students. Student, school, system, and state results are based only on these common items, which are released annually at the time reports are shipped to system test coordinators and posted on the Office of Public Instruction (OPI) website (www.opi.state.mt.us).
- 2. The second category of items is matrix-sampled items. The remaining items in a grade/subject area were divided among 16 different forms of each test; each student completed one form. These items are called matrix-sampled items. A portion of the 2004 matrix-sampled items will become the set of common items in spring 2005.

CRT-ALTERNATE ASSESSMENT

The CRT-Alternate Assessment is a point-intime test that looked at how students performed in relation to performance indicators that were expanded from the Montana reading and mathematics standards and benchmarks. Students participated in an age-appropriate activity for which the teachers were given a script, written directions, and prompting levels. Students were encouraged to engage in the activity and show performance on the indicators through appropriate prompting by the teacher administering the activity.

The teacher who administered the activity observed and scored the student on each indicator. The test activity required evidence to be collected based on the products that were created during the course of the assessment. Templates were provided for all evidence that was required.

MINIMUM NUMBER OF STUDENTS NEEDED TO GENERATE REPORTS

To ensure confidentiality of individual student results and discourage generalizations about school performance based on very small populations, OPI has established 10 as the minimum number of students for which results are reported in any particular subgroup.

Consequently, schools with a very small number of students enrolled in a grade that was tested may not show results in some sections of their school report. A school report was not generated for any school that tested fewer than 10 students in a particular grade; results for these students are included in system- and/or state-level results.

STUDENTS ELIGIBLE FOR EXCLUSION FROM SCHOOL, SYSTEM, AND STATE REPORTS

All students in accredited schools are required to participate in either the CRT or CRT-Alternate Assessment; however, the scores of the students in the following categories were excluded from the calculation of averages:

- foreign exchange students
- students not enrolled in an accredited Montana school (including home-schooled students)
- students enrolled in a private accredited school
- students enrolled in a private nonaccredited Title 1 school

THE Scores

Two types of scores are used to report performance on the CRT and CRT-Alternate Assessments—scaled scores and percentages.

SCALED SCORES

Results are reported according to levels that describe student performance in relation to Montana's established state standards:
Advanced, Proficient, Nearing Proficiency, and Novice. Scaled scores in each content area range from 200 to 300. Scaled scores supplement the performance-level results by providing information about the position of a student's results within a performance level.

School and system-level scaled scores are calculated by computing the average of student-level scaled scores. Students' total number of points on the test are translated into scaled scores using a data analysis process called scaling. Using scaled scores greatly simplifies the task of understanding how a student performed.

Percentages

Percentages are another way to report the results of the test. "Percentage" refers to the percentage of questions answered correctly; the percent correct is simply the percentage of test questions that each student answered correctly.

CRT AND CRT-ALTERNATE REPORTS

The following reports of student, school, and system results are provided each for the CRT and the CRT-Alternate.

Report	Description	Explanation and sample can be found in this interpretive guide on page(s):
Student Report	This parent-guardian report provides each student's scores for the reading and mathematics tests.	CRT: 4–5 CRT-Alt: 11–12
Roster and Item- Level Report	This report provides information about class performance. Each student in the class is listed on the roster, which includes references to each item and standard it measures.	CRT: 6 CRT-Alt: 13
School Summary Report	This three-part summary shows the distribution of scores in each Montana performance level by subgroup, school, system, and state.	CRT: 7–9 CRT-Alt: 14–16
System Summary Report	This three-part summary shows the distribution of scores in each Montana performance level by subgroup, system, and state.	Sample not included. See School Summary Report sample.

PART I, THE CRT REPORTS

CRT

STUDENT REPORT

This parent/guardian report provides each student's scores for the reading and mathematics tests. The chart on page 2 of the Student Report, "Scaled Scores," reflects the

student's performance level **A** and scaled score **B** for reading and mathematics. Please refer to the performance level descriptors on the back cover of the Student Report or page 10 in this guide for additional information and resources.

Scaled Scores

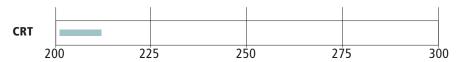
STUDENT RESULTS FOR READING

→ Performance Level: Novice Student Scaled Score: 217



STUDENT RESULTS FOR MATHEMATICS

A→ Performance Level: Novice Student Scaled Score: 217



Contact your student's school for more information about the following symbols:

† Student did not complete the assessment. * Student did not participate in reading or mathematics.

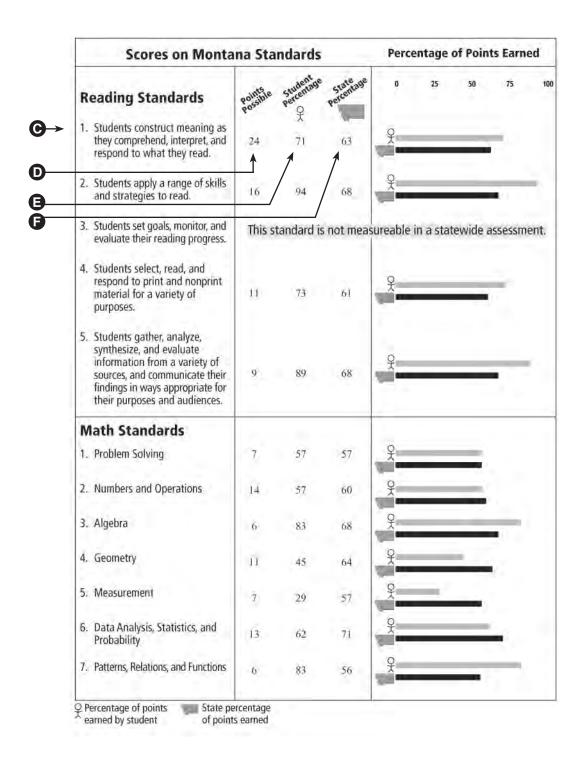
** Student did not participate in entire test.

† Student participated in both CRT and CRT-Alternate. (See additional reports provided.)

§ Student look non-standard accommodation.

The chart on page 3 of the Student Report, "Scores on Montana Standards," shows the standard for each content area assessed **©**, points possible for the number of items or

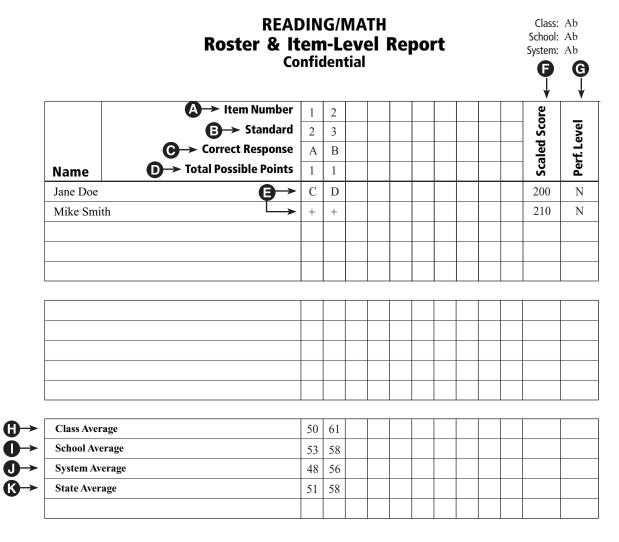
questions given **D**, the student percentage **E**, and the state percentage **F**. The percentage of points earned for each standard is depicted in the bar graph in the last column.



CRT ROSTER & ITEM-LEVEL REPORT

The Roster & Item-Level Report is presented by content area. It provides information about class performance. Each student in the class is listed on the roster. Each common item on the test **A**, the Montana content standard each item is measuring **B**, the correct answer or response **C**, and the total number of possible points **D** are presented along the top of the roster. Beside the name of the student is the

response the student chose for the item if
the item was answered incorrectly **⑤**. If the
item was answered correctly, a plus sign is
printed. The two columns on the right present
the scaled score for each student **⑥** and the
performance level **⑥** the student attained.
The end of the report lists the item average for
students in the class **⑥**, school **⑥**, system **⑥**,
and state **⑥** who answered each item correctly.
A legend, with performance level descriptors,
is located on page 10 in this guide.



[†] Student did not complete the assessment. * Student did not participate in reading or mathematics.

[§] Student took non-standard accomodation. ¥ Not in school and/or district for full academic year.

^{**} Student did not participate in entire test \$ Student participated in both CRT and CRT-Alternate. (See additional reports provided.)

CRT SUMMARY REPORTS

The School and System Summary Reports are presented by content area and provide information at the school and system level. The first chart, "Distribution of scores"

A, shows the distribution of scores in each performance level: Advanced, Proficient, Nearing Proficiency, and Novice. The first column, "Scores" B, represents the scaled score.

The "School," "System," and "State" columns are each divided into three columns that represent the number of students ("N") and the percentage of students receiving each scaled score point **②**. The last column, "% of Students in Cat." **②**, represents the total percentage of students within the designated performance level.

The second chart, "Subtest results" **(E)**, reports the total points and percentage of points earned for each content standard.

The third chart, "Results for Subgroups of Students" **(F)**, disaggregates student data in several ways—by gender, ethnicity, school programs, etc. This data helps measure the effectiveness of instructional programs for different groups in a school. In addition, subgroup data identifies instructional practices and program characteristics that may be more effective. Finally, subgroup data enables educators to identify factors that appear to relate to performance, and compare students statewide with respect to those factors.

System: Grade: School:

Reading

△→ I. Distribution of scores

Perf. Level

Scores

z

% of Students

% of Students in Cat.

z

% of Students

% of Students in Cat.

z

Students

% of Students in Cat.

School

System

State % of

Advanced

Proficient

263-269

270-275 276-282 283-286 287-289 290-293 294-296 297-300

250-256

257-262

School Summary Report

Q II. Subtest results

		Standards			1		
5.	4.	·ω	2.		ota	á	5
Students gather, analyze, synthesize, and evaluate information from a variety of sources, and communicate their findings in ways appropriate for their purposes and audiences	Students select, read, and respond to print and nonprint material for a variety of purposes	Students set goals, monitor, and evaluate their reading progress	Students apply a range of skills and strategies to read	 Students construct meaning as they comprehend, interpret, and respond to what they read 	Total Points	Nedulily	
9	11	This st in a	16	24	60	Possible	Points
		andard is statewide				School	Aver
		This standard is not measureable in a statewide assessment.				System	Average Points Earned
		reable ent.				State	arned

CRT Performance Level Descriptors

Novice

210-214

205-209

215-219 220-224 225-229 230-234 235-239 240-244 245-249

200-204

⊙<

✐→

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@≪

Nearing Proficiency

Advanced

This level denotes superior performance.

Proficient

This level denotes solid academic performance for each benchmark. Students reaching this level have demonstrated competency over challenging subject matter, including subject-matter knowledge, application of such knowledge to real-world situations, and analytical skills appropriate to the subject matter.

Nearing Proficiency
This level denotes that the student has partial mastery or prerequisite knowledge and skills fundamental for proficient work at each benchmark.

NoviceThis level denotes that the student is beginning to attain the prerequisite knowledge and skills that are fundamental for work at each benchmark.

MontCAS, Phase 2 CRT

Reading

School Summary Report

> School: System: Grade:

(1) III. Results for Subgroups of Students

	•														
			School					System					State		
Reporting category	z	2 5 '%	55 '%	• 5 '%	>5'%	z	2 5'%	, 5 %	• 5 '%	>5'%	z	2 5 '%	5 5'%	• 5 '%	>5'%
All Students	XX	X	×	X	XX	XX	X	XX	XX	XX	X	X	X	X	X
Gender	XX	XX	X	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX
Male															
Female															
Ethnicity															
American Indian															
Asian															
Black or African American															
Hispanic															
Native Hawaiian or Other Pacific Islander															
White															
Significant Cognitive Disability															
Educational Disability															
Students with a 504 Plan															
Title I (optional)															
Tested with Standard Accommodation															
Tested with Non-Standard Accommodation															
Alternate Assessment															
Migrant															
Gifted/Talented															
LEP/ELL															
Free/Reduced Lunch															

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CRT Performance Level Descriptors

ADVANCED

This level denotes superior performance.

PROFICIENT

This level denotes solid academic performance for each benchmark. Students reaching this level have demonstrated competency over challenging subject matter, including subject-matter knowledge, application of such knowledge to real-world situations, and analytical skills appropriate to the subject matter.

NEARING PROFICIENCY

This level denotes that the student has partial mastery of prerequisite knowledge and skills fundamental for proficient work at each benchmark.

Novice

This level denotes that the student is beginning to attain the prerequisite knowledge and skills that are fundamental for work at each benchmark.

CRT Scaled Score Ranges for Performance Levels

Grade 4

	Reading	Mathematics
Advanced	283–300	286–300
Proficient	250–282	250–285
Nearing Proficiency	225–249	225–249
Novice	200–224	200–224

Grade 8

	Reading	Mathematics
Advanced	283–300	294–300
Proficient	250–282	250–293
Nearing Proficiency	225–249	225–249
Novice	200–224	200–224

Grade 10

	Reading	Mathematics
Advanced	288–300	288–300
Proficient	250–287	250–287
Nearing Proficiency	225–249	225–249
Novice	200–224	200–224

PART II, THE CRT-ALTERNATE REPORTS

CRT-ALTERNATE STUDENT REPORT

This parent/guardian report provides each student's scores for the reading and mathematics tests. The chart on page 2 of the Student Report, "Scaled Scores," reflects the student's performance level **A** and scaled score **B** for reading and mathematics. Please refer to the perfomance level descriptors on the back cover of the Student Report or page 17 in this guide for additional information and resources.

Scaled Scores

STUDENT RESULTS FOR READING

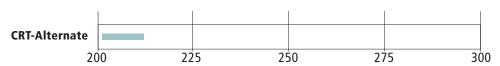
Performance Level: Novice

B→ Student Scaled Score: 217



STUDENT RESULTS FOR MATHEMATICS

A→ Performance Level: Novice B→ Student Scaled Score: 217



Contact your student's school for more information about the following symbols:

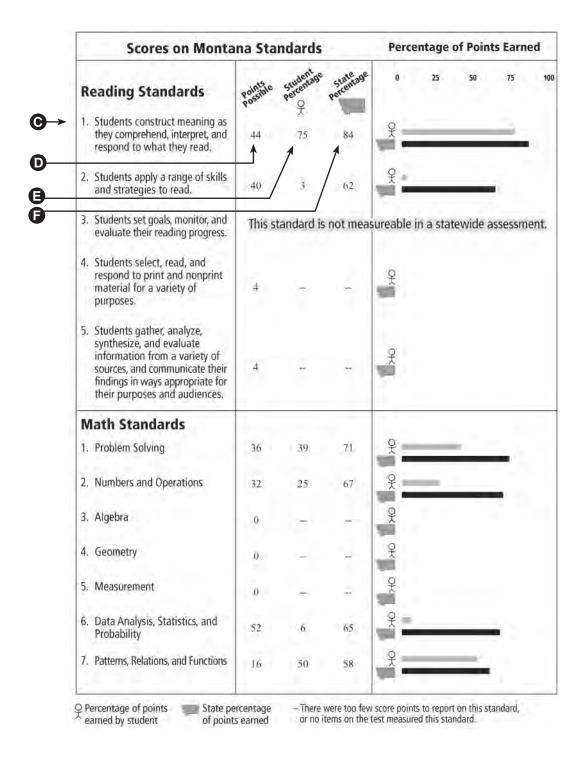
† Student did not complete the assessment. * Student did not participate in reading or mathematics.

** Student did not participate in entire test. ‡ Student participated in both CRT and CRT-Alternate. (See additional reports provided.)

§ Teacher halted the administration of the assessment after the student scored in level 1 or 0 for five consecutive items.

The chart on page 3 of the Student Report, "Scores on Montana Standards," shows the standard for each content area assessed **©** points possible for the number of items or

questions given **D**, the student percentage **E**, and the state percentage **F**. The percentage of points earned for each standard is depicted in the bar graph in the last column.



CRT-ALTERNATE ROSTER & ITEM-LEVEL REPORT

The Roster & Item-Level Report is presented by content area. It provides information about class performance. Each student in the class is listed on the roster. Each item (performance indicator) on the test (A), the Montana content standard each item is measuring (B), and the total number of possible points (4 for every item) (C) are presented along the top of the

roster. Beside the name of the student is the score the student recieved for each item **D**. The two columns on the right present the scaled score for each student **E** and the performance level **F** the student attained. The end of the report lists the item average for students in the class **G**, school **H**, system **D**, and state **D** who answered each item correctly. A legend, with performance level descriptors, is located on page 17 in this guide.

	Readi Roster & Item- Confide	Le	ve	I R	ep)OI	t					Class: A School: A System: A	λb
	A →Item Number	1	2	3	4	5	6	7				ore	le le
	$\bigcirc \rightarrow$ Standard	1	4	4	2	1	1	2				Scaled Score	Perf. Level
Name	G →Total Possible Points	4	4	4	4	4	4	4				Scale	Per
Jane Doe	0→	4	4	4	4	3	4	3				295	A
Mike Smith		4	4	4	4	2	4	3				270	P
				-	-	l		-					
Class Average		4	4	4	4	2	4	3					
School Averag	ge	4	4	4	4	3	4	3					
System Averag	ge	4	4	4	4	3	3	3					
State Average		4	4	4	4	3	4	3					

[†] Student did not complete the assessment. * Student did not participate in reading or mathematics.

^{**} Student did not participate in entire test. ‡ Student participated in both CRT and CRT-Alternate. (See additional reports provided.)

[§] Teacher halted the administration of the assessment after the student scored in level 1 or 0 for five consecutive items. ¥ Not in school and/or district for full academic year.

CRT-ALTERNATE SUMMARY REPORTS

The School and System Summary Reports are presented by content area and provide information at the school and system level. School and System Summary Reports are not produced when there are less than 10 students assessed. The first chart, "Distribution of scores" (A), shows the distribution of scores in each performance level: Advanced, Proficient, Nearing Proficiency, and Novice. The first column, "Scores" (B), represents the scaled score.

The "School," "System," and "State" columns are each divided into three columns that represent the number of students ("N") and the percentage of students receiving each scaled score point **②**. The last column, "% of Students in Cat." **①**, represents the total percentage of students within the designated performance level.

The second chart, "Subtest results" **(E)**, reports the total points and percentage of points earned for each content standard.

The third chart, "Results for Subgroups of Students" **©**, disaggregates student data in several ways—by gender, ethnicity, school programs, etc. This data helps measure the effectiveness of instructional programs for different groups in a school. In addition, subgroup data identifies instructional practices and program characteristics that may be more effective. Finally, subgroup data enables educators to identify factors that appear to relate to performance, and compare students statewide with respect to those factors.

MontCAS, Phase 2 RT-Alternate

Grade: System: School:

School Summary Report

△→ I. Distribution of scores

	Perf. Level		ced	van	Ad			ent	ofici	Pro		ncy	ficie	g Pro	aring	Ne		:e	ovio	N	
	Scores	294-300	288-293	281-287	275-280	268-274	264-267	261-263	257-260	254-256	250-253	245-249	240-244	235-239	230-234	225-229	220-224	215-219	210-214	205-209	200-204
	z																				
School	% of Students																				
	% of Students in Cat.																				
	z																				
System	% of Students																				
	% of Students in Cat.																				
	z																				
State	% of Students																				
	% of Students in Cat.																				

⊕→ II. Subtest results

	Standards			*		
5 4	ω	2.		Tot	á	
Students select, read, and respond to print and nonprint material for a variety of purposes Students gather, analyze, synthesize, and evaluate information from a variety of sources, and communicate their findings in ways appropriate for their purposes and audiences	Students set goals, monitor, and evaluate their reading progress	Students apply a range of skills and strategies to read	 Students construct meaning as they comprehend, interpret, and respond to what they read 	*Total Points	readilig	
4 4	This st in a	40	44	92	Possible	Points
	andard is I				School	Avera
	This standard is not measureable in a statewide assessment.				System	Average Points Earned
	reable int.				State	ırned

⁻⁻There were too few score points to report on this standard, or no items on the test measured this standard.

CRT-Alternate Performance Level Descriptors

AdvancedThe student at the Advanced level accurately and independently demonstrates the ability to carry out comprehensive content specific performance indicators. **Proficient**

The student at the Proficient level, given limited prompting, demonstrates the ability to respond accurately in performing a wide variety of content specific performance indicators.

Nearing Proficiency
The student at the Nearing Proficiency level, given moderate prompting, demonstrates the ability to respond accurately in performing a narrow set of content specific performance indicators.

Novice The student at the Novice level, given physical assistance and/or modeling, is supported to participate in content specific performance indicators.

^{*}The sum of the points for each standard may exceed the total points, as some items correlate with more than one standard.

MontCAS, Phase 2 -Alternate

School Summary Report

School: System: Grade:

→ III. Results for Subgroups of Students

								•		_					
			School	:				System	:	:			State	:	:
Reporting category	z	25 %	₹5'%	₽5'%	≥5'%	z	25 %	₹5°%	₽5"%	≽ה'%	z	≥5'%	₹5'%	₽5'%	₽5"%
All Students															
Gender		ļ					ļ	ļ							
Male															
Female															
Ethnicity															
American Indian															
Asian															
Black or African American															
Hispanic															
Native Hawaiian or Other Pacific Islander															
White															
Significant Cognitive Disability															
Students with a 504 Plan															
Title I (optional)															
Tested with Standard Accommodation															
Tested with Non-Standard Accommodation															
Alternate Assessment															
Migrant															
Gifted/Talented															
LEP/ELL															
Free/Reduced Lunch															
* Less than ten (10) students were assessed.															

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CRT-ALTERNATE PERFORMANCE LEVEL DESCRIPTORS

ADVANCED

The student at the Advanced level **accurately and independently** demonstrates the ability to carry out **comprehensive** content-specific performance indicators.

PROFICIENT

The student at the Proficient level **given limited prompting**, demonstrates the ability to respond accurately in performing **a wide variety** of content-specific performance indicators.

NEARING PROFICIENCY

The student at the Nearing Proficiency level demonstrates the ability to respond accurately in performing **a narrow set of** content-specific performance indicators.

Novice

The student at the Novice level, given physical assistance and/or modeling, is supported to participate in content specific performance indicators.

CRT-ALTERNATE SCALED SCORE RANGES FOR PERFORMANCE LEVELS

Grade 4

	Reading	Mathematics
Advanced	268–300	278–300
Proficient	250–267	250–277
Nearing Proficiency	225–249	225–249
Novice	200–224	200–224

Grade 8

	Reading	Mathematics
Advanced	263–300	269–300
Proficient	250–262	250–268
Nearing Proficiency	225–249	225–249
Novice	200–224	200–224

Grade 10

	Reading	Mathematics
Advanced	267–300	276–300
Proficient	250–266	250–275
Nearing Proficiency	225–249	225–249
Novice	200–224	200–224

OTHER CRT-ALTERNATE INFORMATION

To review the items (performance indicators) and the standards that correlate to the items on the test, please visit the Measured Progress website at www.measuredprogress.org.

For more information about the CRT-Alternate Assessment, please refer to the CRT-Alternate Administration Manual at either of the following websites:

The Office of Public Instruction (OPI) at www.opi.state.mt.us

or

Measured Progress at www.measuredprogress.org.